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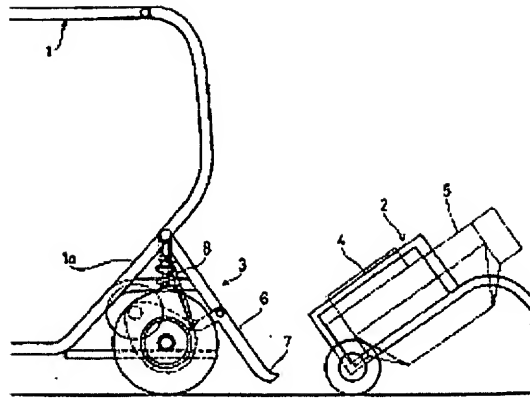
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(54) [Title of the Invention] Golf Cart

(57) [Abstract of the Disclosure]

[Means of Achievement] The rear part 1a of a cart body 1 is provided with an elevating mechanism 3 for a golf bag carrier 2.

[Advantages of the Invention] A golf bag is carried on the rear part of a cart body while laid on a golf bag carrier, and no labor is required to load the golf bag.



[What is claimed is:]

[Claim 1] A golf cart,

wherein an elevating mechanism (3) for a golf bag carrier (2) is provided to the rear part (1a) of a cart body (1).

[Claim 2] The golf cart as recited in Claim 1,

wherein the elevating mechanism (3) is designed to freely elevate the golf bag carrier (2) on the rear part (1a) of the cart body (1) by engaging a frame (4) of the golf bag carrier (2) by means of a hook (7) formed on the edge of a crank (6) hanging in a downward slanted state over the rear part (1a) of the cart body (1), and turning the crank (6).

[Claim 3] The golf cart as recited in Claim 1,

wherein the elevating mechanism (3) is designed to freely elevate the golf bag carrier (2) on the rear part (1a) of the cart body (1) by engaging the frame (4) of the golf bag carrier (2) by means of a hook (7) slidably mounted on a guide rail (10) disposed along a slide frame (9) in a downward slanting state on the rear part (1a) of the cart body (1), and sliding the hook (7) back and forth along the guide rail (10).

[Claim 4] The golf cart as recited in Claim 1,

wherein the elevating mechanism (3) is designed to freely elevate the golf bag carrier (2) on the rear part (1a) of the cart body (1) by engaging part of the frame (4) of the golf bag carrier (2) by means of a hook (7) installed on a self-propelled motor (15) provided with a rotatably mounted pinion (14) driven by an interlocked rack (13) disposed along the slide frame (9) in a downward slanting state on the rear part (1a) of the cart body (1), and moving the self-propelled motor (15) back and forth along the rack (13).

[Detailed Description of the Invention]

[0001]

[Technological Field of the Invention] The present invention relates to a golf cart that is able to travel within a golf course with a golf bag laid on a golf bag carrier on the rear part of the cart body.

[0002]

[Related Art] Conventional golf carts have been designed such that a carrying platform for golf bags is provided to the rear part of the cart body, and a golf bag taken out from a clubhouse or the like and laid on a golf bag carrier is lowered from the golf bag carrier and transferred to the carrying platform provided to the rear part of the cart body.

[0003]

[Problems Which the Invention Is Intended to Solve] However, the above-mentioned conventional golf carts have had problems in that much labor is required to transfer golf bags, because the golf bags must be lowered and transferred one by one and the golf bag carrier used to transfer the golf bags must be taken care of afterwards.

[0004] Therefore, the present invention is intended to resolve the problems of the above-mentioned conventional golf cart, and an object thereof is to provide a golf cart designed such that a golf bag can be carried on the rear part of a cart body while laid on a golf bag carrier, and such that no labor is required to transfer golf bags.

[0005]

[Means Used to Solve the Above-Mentioned Problems] Therefore, the golf cart of the present invention is provided with an elevating mechanism 3 in golf bag carrier 2 on rear part 1a of cart body 1.

[0006] In the present invention, elevating mechanism 3 is designed to freely elevate golf bag carrier 2 on rear part 1a of cart body 1 by engaging a frame 4 of golf bag carrier 2 by means of a hook 7 formed on the edge of a crank 6 hanging in a downward slanted state over rear part 1a of cart body 1, and turning crank 6.

[0007] Furthermore, in the present invention, elevating mechanism 3 is designed to freely elevate golf bag carrier 2 on rear part 1a of cart body 1 by engaging frame 4 of golf bag carrier 2 by means of a hook 7 slidably mounted on a guide rail 10 disposed along a slide frame 9 in a

downward slanting state on rear part 1a of cart body 1, and sliding hook 7 back and forth along guide rail 10.

[0008] In the present invention, elevating mechanism 3 may be designed to freely elevate golf bag carrier 2 on rear part 1a of cart body 1 by engaging part of frame 4 of golf bag carrier 2 by means of a hook 7 installed on a self-propelled motor 15 provided with a rotatably mounted pinion 14 driven by an interlocked rack 13 disposed along slide frame 9 in a downward slanting state on rear part 1a of cart body 1, and moving self-propelled motor 15 back and forth along rack 13.

[0009]

[Detailed Description of the Exemplary Embodiments] The embodiments of the golf cart of the present invention are described in detail below with reference to the diagrams.

[0010] The golf cart of the present invention is provided with an elevating mechanism 3 in golf bag carrier 2 on rear part 1a of cart body 1. Figures 1 through 4 show the first embodiment of the golf cart of the present invention, Figures 5 through 8 show the second embodiment of the golf cart of the present invention, and Figures 9 through 11 show the third embodiment of the golf cart of the present invention.

[0011] The above-mentioned golf bag carrier 2 is designed to have a plurality of golf bags 5 laid thereon, with frame 4 assembled into a suitable configuration. Golf bag carrier 2 has two wheels in the first embodiment and four wheels in the second and third embodiments, but it is not limited to two or four wheels.

[0012] Elevating mechanism 3 is designed to freely elevate golf bag carrier 2 on rear part 1a of cart body 1 by raising and lowering golf bag carrier 2, which is done by engaging part of a frame 4 of golf bag carrier 2 by means of a hook 7 formed on the edge of a crank 6 hanging in a downward slanted state over rear part 1a of cart body 1, and turning crank 6. A damper 8 is coupled with crank 6 and is designed to reduce the impact when loading and unloading golf bag carrier 2.

[0013] In the second embodiment, elevating mechanism 3 is designed to freely elevate golf bag carrier 2 on rear part 1a of cart body 1 by engaging part of frame 4 of golf bag carrier 2 by means of a hook 7 slidably mounted on a guide rail 10 disposed along the side of a slide frame 9 in a downward slanting state on rear part 1a of cart body 1, and sliding hook 7 back and forth along guide rail 10. Hook 7 is rotatably mounted on the front edge of a link 11, and the back edge of

link 11 is rotatably mounted on the back edge of a link 12 rotatably mounted on slide frame 9, yielding a slider crank on which hook 7 can move back and forth in a straight line. Furthermore, damper 8 is coupled with link 11 and is designed to reduce the impact when loading and unloading golf bag carrier 2.

[0014] In the third embodiment, elevating mechanism 3 is designed to freely elevate golf bag carrier 2 on rear part 1a of cart body 1 by engaging part of frame 4 of golf bag carrier 2 by means of a hook 7 installed on a self-propelled motor 15 provided with a rotatably mounted pinion 14 driven by an interlocked rack 13 disposed along the upper surface of slide frame 9 in a downward slanting state on rear part 1a of cart body 1, and moving self-propelled motor 15 back and forth along rack 13.

[0015] In the golf cart of the present invention structured as described above, the golf bag carrier is loaded and unloaded as follows.

[0016] First, in the first embodiment, golf bag carrier 2 is brought near rear part 1a of cart body 1 as shown in Figure 2. Next, as shown in Figure 3, frame 4 of golf bag carrier 2 is clamped onto crank 6 of cart body 1, and part of frame 4 is engaged by hook 7. Then, as shown in Figure 4, it is possible to load golf bag carrier 2 on rear part 1a of cart body 1 if golf bag carrier 2 is raised by turning crank 6.

[0017] To lower golf bag carrier 2 from rear part 1a of cart body 1, golf bag carrier 2 is brought down to the ground by turning crank 6 in the opposite direction from before. Frame 4 should then be disengaged from hook 7.

[0018] In the second embodiment, golf bag carrier 2 is brought near rear part 1a of cart body 1 as shown in Figure 6. Next, as shown in Figure 7, frame 4 of golf bag carrier 2 is clamped onto slide frame 9 of cart body 1, and part of frame 4 is engaged by hook 7. Then, as shown in Figure 8, it is possible to load golf bag carrier 2 on rear part 1a of cart body 1 by sliding hook 7 on the side of cart body 1 along guide rail 10.

[0019] To lower golf bag carrier 2 from rear part 1a of cart body 1, golf bag carrier 2 is brought down to the ground by sliding hook 7 in the opposite direction from previously. Frame 4 should then be disengaged from hook 7.

[0020] In the third embodiment, golf bag carrier 2 is brought near rear part 1a of cart body 1 as shown in Figure 9. Next, as shown in Figure 10, frame 4 of golf bag carrier 2 is clamped onto hook 7 of self-propelled motor 15 positioned at the bottom of slide frame 9 of cart body 1, and

part of frame 4 is engaged by hook 7. Then, as shown in Figure 11, it is possible to load golf bag carrier 2 on rear part 1a of cart body 1 by moving self-propelled motor 15 on the side of cart body 1 along rack 13.

[0021] To lower golf bag carrier 2 from rear part 1a of cart body 1, golf bag carrier 2 is brought down to the ground by moving self-propelled motor 15 in the opposite direction from previously. Frame 4 should then be disengaged from hook 7.

[0022]

[Advantages of the Invention] Because the present invention is structured as described above, it is possible to carry the golf bag on the rear part of the cart body while laid on the golf bag carrier, and no labor is required to load the golf bag.

[Brief Description of the Drawings]

[Figure 1] A perspective view showing the first embodiment of the golf cart of the present invention.

[Figure 2] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the first embodiment of the golf cart of the present invention.

[Figure 3] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the first embodiment of the golf cart of the present invention.

[Figure 4] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the first embodiment of the golf cart of the present invention.

[Figure 5] A perspective view showing the second embodiment of the golf cart of the present invention.

[Figure 6] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the second embodiment of the golf cart of the present invention.

[Figure 7] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the second embodiment of the golf cart of the present invention.

[Figure 8] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the second embodiment of the golf cart of the present invention.

[Figure 9] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the third embodiment of the golf cart of the present invention.

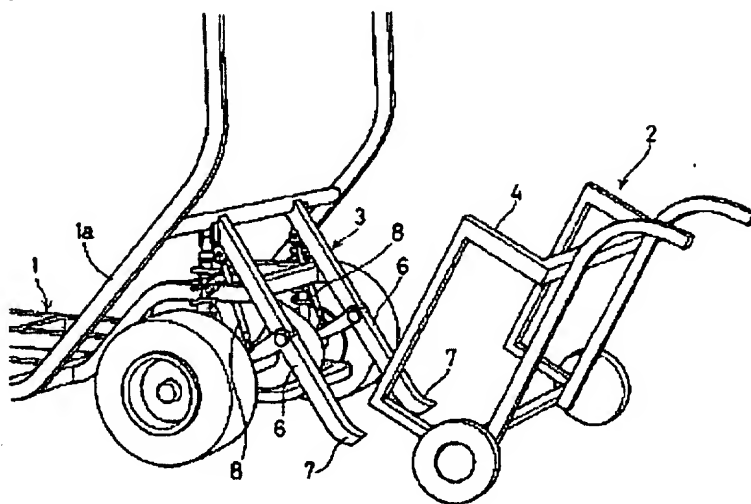
[Figure 10] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the third embodiment of the golf cart of the present invention.

[Figure 11] An explanatory diagram showing the loading and unloading state of the golf bag carrier in the third embodiment of the golf cart of the present invention.

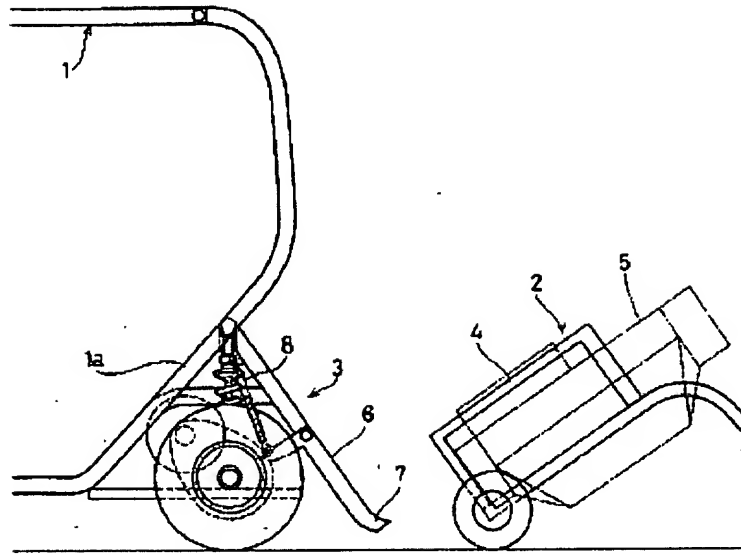
[Key]

- 1: cart body
- 1a: rear part
- 2: golf bag carrier
- 3: elevating mechanism
- 4: frame
- 6: crank
- 7: hook
- 9: slide frame
- 10: guide rail
- 13: rack
- 14: pinion
- 15: self-propelled motor

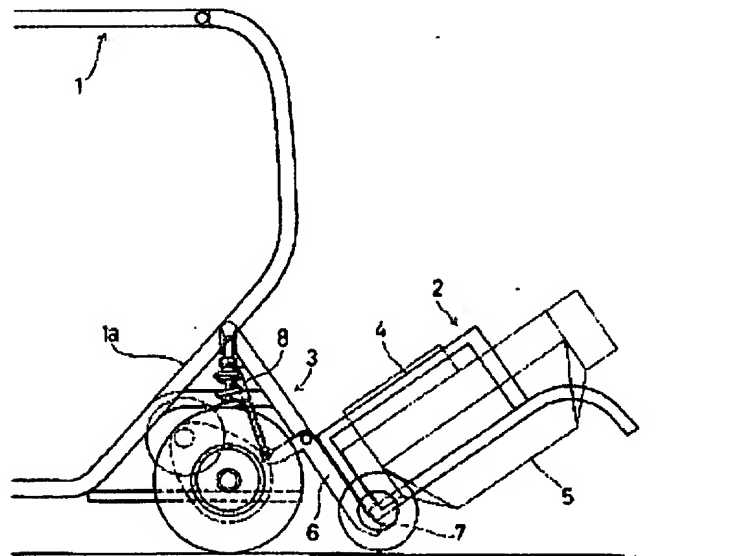
[Figure 1]



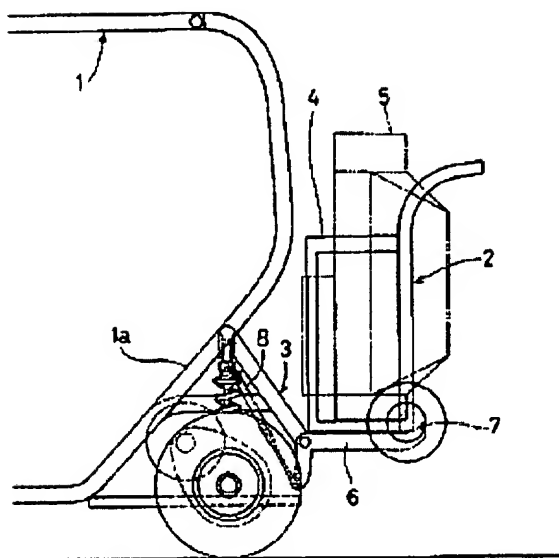
[Figure 2]



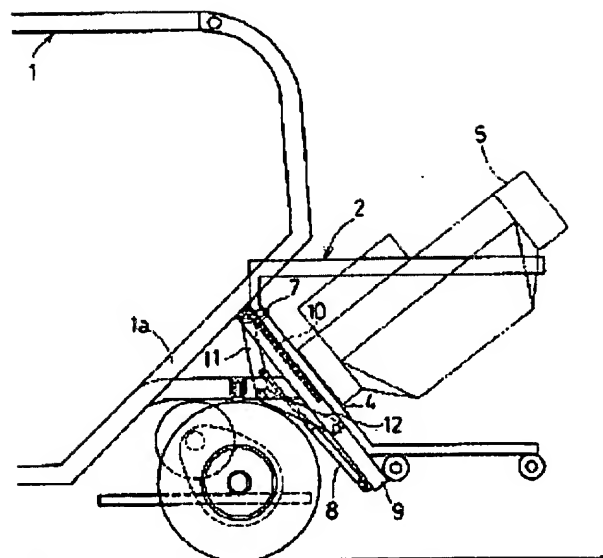
[Figure 3]



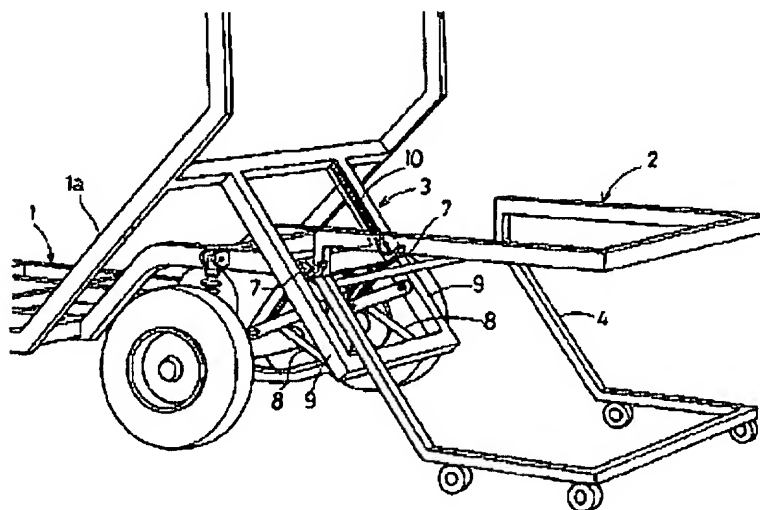
[Figure 4]



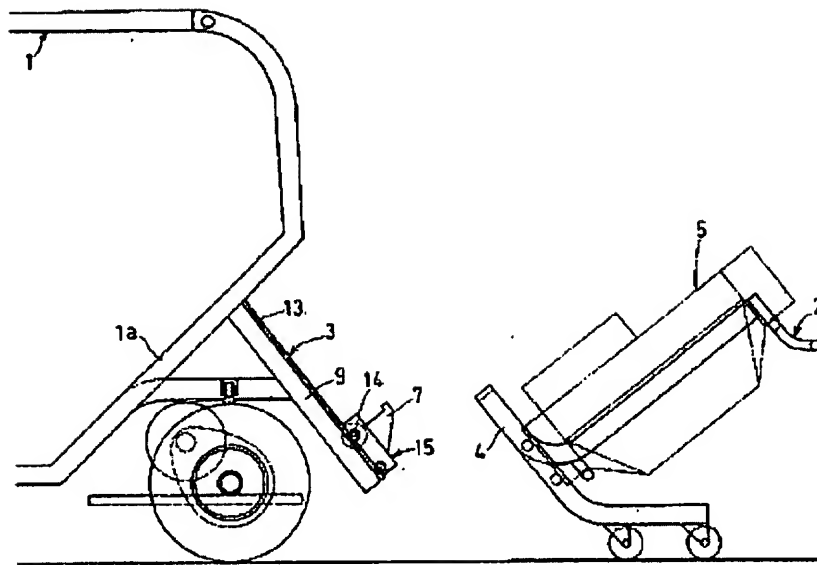
[Figure 8]



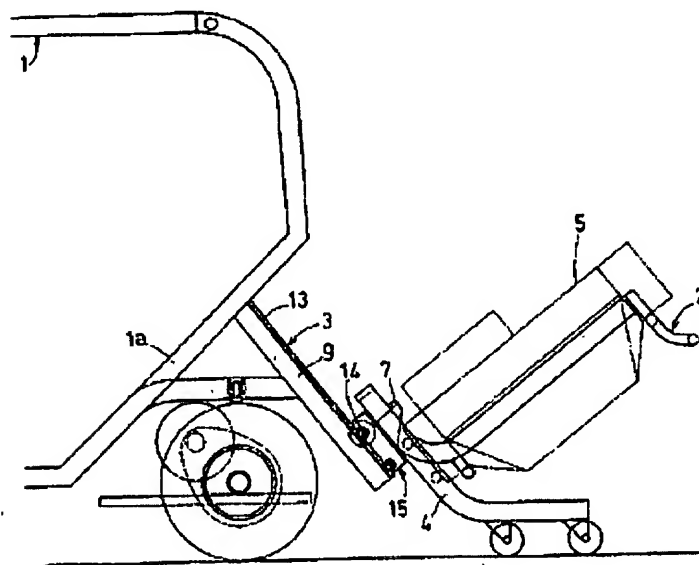
[Figure 5]



[Figure 9]



[Figure 10]



[Figure 11]

